We claim:

1. Surface-modified zinc oxides, characterized in that they have the following physico-chemical characteristic data:

BET surface areas: $18 \pm 5 \text{ m}^2/\text{g}$

C content: 0.5 to 1.0 wt.%

- 2. Surface-modified zinc oxide according to Claim 1, which has been surface modified with a member selected from the group consisting of:
 - a) Organosilanes of the type $(RO)_3Si(C_nH_{2n+1})$ and $RO)_3Si(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- n = 1 20
 - b) Organosilanes of the type $R'_x(RO)_ySi(C_nH_{2n+1})$ and $R'x(RO)ySi(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = cycloalkyl n = 1 20 x+y = 3 x = 1,2 y = 1,2
 - c) Halogeno-organosilanes of the type $\text{X}_3\text{Si}\left(\text{C}_n\text{H}_{2n+1}\right)$ and $\text{X}_3\text{Si}\left(\text{C}_n\text{H}_{2n-1}\right)$ X = Cl, Br n = 1 20
 - d) Halogeno-organosilanes of the type $X_2(R')Si(C_nH_{2n+1})$ and $X_2(R')Si(C_nH_{2n-1})$ X = Cl, Br R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- R' = cycloalkyl n = 1 20

```
X(R')_2Si(C_nH_{2n+1}) and X(R')_2Si(C_nH_{2n-1})
            X = Cl, Br
            R' = alkyl, such as, for example, methyl-,
                   ethyl-, n-propyl-, i-propyl-, butyl-
            R'=cycloalkyl
            n = 1 - 20
f) Organosilanes of the type (RO)<sub>3</sub>Si(CH<sub>2</sub>)<sub>m</sub>-R'
         R = alkyl, such as methyl-, ethyl-, propyl-
         m = 0, 1 - 20
         R' = methyl-, aryl (for example -C<sub>6</sub>H<sub>5</sub>,
               substituted phenyl radicals)
              -C_4F_9, OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
              -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
              -N-(CH_2-CH_2-NH_2)_2
              -OOC(CH_3)C = CH_2
              -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
              -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
              -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-
               (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
              -S_x-(CH_2)_3Si(OR)_3
              -NR'R''R''' (R' = alkyl, aryl; R'' = H,
               alkyl, aryl; R''' = H, alkyl, aryl, benzyl,
               C_2H_4NR'''' R''''' where R'''' = H, alkyl and
               R''''' = H, alkyl)
g) Organosilanes of the type (R")_x(RO)_ySi(CH_2)_m-R'
 R'' = alkyl
                       x+y = 2
     = cycloalkyl x = 1,2
      = 1, 2
 У
       = 0,1 to 20
 R' = methyl-, aryl (for example -C_6H_5, substituted
       phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
        -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
        -N-(CH_2-CH_2-NH_2)_2
       -OOC(CH_3)C = CH_2
        -OCH_2-CH(O)CH_2
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
       -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-
                     (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
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e) Halogeno-organosilanes of the type

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-S_{x}-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
                    -SH
                      - NR'R''R''' (R' = alkyl, aryl; R'' = H,
                         alkyl, aryl; R''' = H, alkyl, aryl,
                    benzyl,
                      C_2H_4NR'''' R''''' where R'''' = H, alkyl
                      and R''''
                                                         = H, alkyl)
h) Halogeno-organosilanes of the type X_3Si(CH_2)_m- R'
 X = Cl, Br
 m = 0, 1 - 20
 R' = methyl-, aryl (for example -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
        -NH_2, -N_3, -SCN, -CH=CH_2,
        -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH_2-CH(O)CH_2
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
        -S_{x}-(CH_{2})_{3}Si(OR)_{3}
       -SH
i) Halogeno-organosilanes of the type (R)X_2Si(CH_2)_m-R'
 X = C1, Br
 R = alkyl, such as methyl, - ethyl-, propyl-
 m = 0, 1 - 20
 R' = methyl-, aryl (e.g. -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
        -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>,
         wherein R can be methyl-, ethyl-, propyl-,
butyl-
        -S_x-(CH_2)_3Si(OR)_3, wherein R can be methyl-,
         ethyl-, propyl-, butyl-
        -SH
```

k) Silazanes of the type $R'R_2Si-N-SiR_2R'$ H

1) Cyclic polysiloxanes of the type D 3, D 4, D 5, wherein D 3, D 4 and D 5 are understood as cyclic polysiloxanes with 3, 4 or 5 units of the type -O-Si(CH_3)₂-.E.g. octamethylcyclotetrasiloxane = D 4

$$CH_3$$
 CH_3 CH_3
 H_3C O O CH_3
 CH_3 CH_3

m) Polysiloxanes or silicone oils of the type

$$m = 0, 1, 2, 3, ... \infty$$

 $n = 0, 1, 2, 3, ... \infty$
 $u = 0, 1, 2, 3, ... \infty$

 $Si(CH_3)_2OH$, $Si(CH_3)_2(OCH_3)$,

$$Si(CH_3)_2(C_nH_{2n+1})$$
 n=1-20

- = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, R such as phenyl und substituted phenyl radicals, (CH₂)_n-NH₂, H
- R' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- R'' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals, $(CH_2)_n$ -NH₂, H
- R''' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- A process for the preparation of the surface-modified zinc oxide according to claim 1, comprising optionally spraying a zinc oxide with water, spraying a surface-modifying agent at room temperature to obtain a zinc oxide sprayed with said surface-modifying agent, heat treating said zinc oxide at a temperature of 50 to 400°C over a period of 1 to 6 hours to thereby obtain a surface-modified zinc oxide.
- The process according to Claim 3, wherein the surface-4. modifying agent is a member selected from the group consisting of:

- a) Organosilanes of the type $(RO)_3Si(C_nH_{2n+1})$ and $RO)_3Si(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- n = 1 20
- b) Organosilanes of the type $R'_x(RO)_ySi(C_nH_{2n+1})$ and $R'x(RO)ySi(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = cycloalkyl n = 1 20 x+y = 3 x = 1,2 y = 1,2
- c) Halogeno-organosilanes of the type $X_3Si(C_nH_{2n+1})$ and $X_3Si(C_nH_{2n-1})$ X = Cl, Br n = 1 20
- d) Halogeno-organosilanes of the type $X_2(R')Si(C_nH_{2n+1})$ and $X_2(R')Si(C_nH_{2n-1})$ X = Cl, Br R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- R' = cycloalkyl n = 1 20
- e) Halogeno-organosilanes of the type

$$X(R')_2Si(C_nH_{2n+1})$$
 and $X(R')_2Si(C_nH_{2n-1})$
 $X = Cl$, Br
 $R' = alkyl$, such as, for example, methyl-,
ethyl-, n-propyl-, i-propyl-, butyl-
 $R' = cycloalkyl$
 $n = 1 - 20$

f) Organosilanes of the type $(RO)_3Si(CH_2)_m-R'$ R = alkyl, such as methyl-, ethyl-, propyl-m = 0,1-20 R' = methyl-, aryl (for example $-C_6H_5$)

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substituted phenyl radicals)
              -C_4F_9, OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
              -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
              -N-(CH_2-CH_2-NH_2)_2
              -OOC(CH_3)C = CH_2
              -OCH_2-CH(O)CH_2
              -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
              -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-
                (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
              -S_{x}-(CH_{2})_{3}Si(OR)_{3}
              -NR'R''R''' (R' = alkyl, aryl; R'' = H,
               alkyl, aryl; R''' = H, alkyl, aryl, benzyl,
               C_2H_4NR'''' R''''' where R'''' = H, alkyl and
               R''''' = H, alkyl)
g) Organosilanes of the type (R")<sub>x</sub>(RO)<sub>y</sub>Si(CH<sub>2</sub>)<sub>m</sub>-R'
 R'' = alkyl
                        x+y = 2
     = cycloalkyl x = 1,2
      = 1, 2
 У
      = 0,1 to 20
 R' = methyl-, aryl (for example -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
        -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH_2-CH(O)CH_2
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-
                     (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
                    -S_{x}-(CH_{2})_{3}Si(OR)_{3}
                     - NR'R''R''' (R' = alkyl, aryl; R'' = H,
                        alkyl, aryl; R''' = H, alkyl, aryl,
                    benzyl,
                      C_2H_4NR'''' R''''' where R'''' = H, alkyl
                           R''''
                      and
                                                        = H, alkyl)
h) Halogeno-organosilanes of the type X<sub>3</sub>Si(CH<sub>2</sub>)<sub>m</sub>- R'
 X = C1, Br
 m = 0, 1 - 20
 R' = methyl-, aryl (for example -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
```

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-NH_2, -N_3, -SCN, -CH=CH_2,
        -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH_2-CH(O)CH_2
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-(CH_2)_3Si(OR)_3
        -S_x-(CH_2)_3Si(OR)_3
      -SH
i) Halogeno-organosilanes of the type (R)X_2Si(CH_2)_m-R'
 X = Cl, Br
 R = alkyl, such as methyl, - ethyl-, propyl-
 m = 0, 1 - 20
 R' = methyl-, aryl (e.g. -C_6H_5, substituted
        phenyl radicals)
        -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
        -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
        -N-(CH_2-CH_2-NH_2)_2
        -OOC(CH_3)C = CH_2
        -OCH_2-CH(O)CH_2
        -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
        -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-(CH_2)_3Si(OR)_3,
         wherein R can be methyl-, ethyl-, propyl-,
butyl-
        -S_x-(CH_2)_3Si(OR)_3, wherein R can be methyl-,
         ethyl-, propyl-, butyl-
        -SH
j) Halogeno-organosilanes of the type (R)<sub>2</sub>X Si(CH<sub>2</sub>)<sub>m</sub>-R'
              X = Cl, Br
              R = alkyl
              m = 0, 1 - 20
              R' = methyl-, aryl (e.g. -C_6H_5, substituted
                     phenyl radicals)
              -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
              -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2
              -N-(CH_2-CH_2-NH_2)_2
              -OOC(CH_3)C = CH_2
              -OCH2-CH(O)CH2
              -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
              -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-
                     (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
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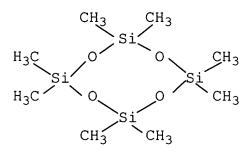
$$-S_x-(CH_2)_3Si(OR)_3$$

-SH

k) Silazanes of the type R'R₂Si-N-SiR₂R'

Η

- R = alkyl, vinyl, arylR' = alkyl, vinyl, aryl
- 1) Cyclic polysiloxanes of the type D 3, D 4, D 5, wherein D 3, D 4 and D 5 are understood as cyclic polysiloxanes with 3, 4 or 5 units of the type -O- $Si(CH_3)_2$ -.E.g. octamethylcyclotetrasiloxane = D 4



m) Polysiloxanes or silicone oils of the type

Y-O-
$$\begin{pmatrix} R \\ | \\ | \\ Si-O \\ | \\ R' \end{pmatrix} - \begin{pmatrix} R'' \\ | \\ | \\ Si-O \\ | \\ R''' \end{pmatrix} - \begin{pmatrix} R'' \\ | \\ | \\ Si-O \\ | \\ P''' \end{pmatrix} - \begin{pmatrix} R'' \\ | \\ | \\ Si-O \\ | \\ -Y \end{pmatrix} - \begin{pmatrix} M = 0,1,2,3,...\infty \\ u = 0,1,2,3,...\infty \\ u = 0,1,2,3,...\infty \\ u = 0,1,2,3,...\infty \\ Y=CH_3, H, C_nH_{2n+1} n=1-20 \\ Y=Si(CH_3)_3, Si(CH_3)_2H \\ Si(CH_3)_3OH - Si(CH_3)_3(OCH_3)_3 \end{pmatrix}$$

$$m = 0, 1, 2, 3, ... \propto n = 0, 1, 2, 3, ...$$

 $Si(CH_3)_2OH$, $Si(CH_3)_2(OCH_3)$,

$$Si(CH_3)_2(C_nH_{2n+1})$$
 n=1-20

- = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, R' such as phenyl- and substituted phenyl radicals, (CH₂)_n-NH₂, H
- R'' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals,

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(CH_2)_n-NH<sub>2</sub>, H
R''' = alkyl, such as C_nH_{2n+1}, wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, (CH_2)_n-NH<sub>2</sub>, H
```

- 5. A process for the preparation of the surface-modified zinc oxides according to Claim 1, comprising optionally spraying zinc oxide with water, treating said zinc oxide with a surface-modifying agent in vapour form and then heat-treating the resulting zinc oxide at a temperature of 50 to 800°C over a period of 0.5 to 6 hours to thereby obtain a surface-modified zinc oxide.
- 6. The process according to Claim 5, wherein the surface-modifying agent is a member selected from the group consisting of:
 - a) Organosilanes of the type $(RO)_3Si(C_nH_{2n+1})$ and $RO)_3Si(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl- n = 1 20
 - b) Organosilanes of the type $R'_x(RO)_ySi(C_nH_{2n+1})$ and $R'x(RO)_ySi(C_nH_{2n-1})$ R = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R' = alkyl, such as, for example, methyl-, ethyl-, n-propyl-, i-propyl-, butyl-R'=cycloalkyl n = 1 20 x+y = 3 x = 1,2 y = 1,2
 - c) Halogeno-organosilanes of the type $X_3Si(C_nH_{2n+1})$ and $X_3Si(C_nH_{2n-1})$ X = Cl, Br n = 1 20

```
d)
    Halogeno-organosilanes of the type X_2(R')Si(C_nH_{2n+1})
     and X_2(R')Si(C_nH_{2n-1})
     X = C1, Br
     R' = alkyl, such as, for example, methyl-, ethyl-,
     n-propyl-, i-propyl-, butyl-
     R'=cycloalkyl
     n = 1 - 20
e) Halogeno-organosilanes of the type
           X(R')_{2}Si(C_{n}H_{2n+1}) and X(R')_{2}Si(C_{n}H_{2n-1})
           X = C1, Br
           R' = alkyl, such as, for example, methyl-,
                 ethyl-, n-propyl-, i-propyl-, butyl-
           R'=cycloalkyl
           n = 1 - 20
f) Organosilanes of the type (RO)<sub>3</sub>Si(CH<sub>2</sub>)<sub>m</sub>-R'
        R = alkyl, such as methyl-, ethyl-, propyl-
        m = 0, 1 - 20
        R' = methyl-, aryl (for example -C_6H_5,
              substituted phenyl radicals)
             -C_4F_9, OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
             -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
             -N-(CH_2-CH_2-NH_2)_2
             -OOC(CH_3)C = CH_2
             -OCH<sub>2</sub>-CH(O)CH<sub>2</sub>
             -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
             -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-
              (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
             -S_{x}-(CH_{2})_{3}Si(OR)_{3}
             -NR'R''R''' (R' = alkyl, aryl; R'' = H,
              alkyl, aryl; R''' = H, alkyl, aryl, benzyl,
              C_2H_4NR'''' R''''' where R'''' = H, alkyl and
              R''''' = H, alkyl)
g)
    Organosilanes of the type (R'')_x(RO)_ySi(CH_2)_m-R'
                          x+y = 2
       R'' = alkyl
           = cycloalkyl x = 1.2
       У
            = 1, 2
            = 0.1 to 20
       R' = methyl-, aryl (for example -C_6H_5, substituted
             phenyl radicals)
             -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
             -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
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-N-(CH_2-CH_2-NH_2)_2
              -OOC(CH_3)C = CH_2
              -OCH_2-CH(O)CH_2
              -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
              -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-
                     (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
                    -S_x-(CH_2)_3Si(OR)_3
                     - NR'R''R''' (R' = alkyl, aryl; R'' = H,
                        alkyl, aryl; R''' = H, alkyl, aryl,
                    benzyl,
                     C_2H_4NR'''' R''''' where R'''' = H, alkyl
                           RIIIII
                                                       = H, alkyl)
h) Halogeno-organosilanes of the type X_3Si(CH_2)_m- R'
       X = Cl, Br
       m = 0, 1 - 20
        R' = methyl-, aryl (for example -C_6H_5, substituted
              phenyl radicals)
              -C_4F_9, -OCF_2-CHF-CF<sub>3</sub>, -C_6F_{13}, -O-CF_2-CHF<sub>2</sub>
              -NH_2, -N_3, -SCN, -CH=CH_2,
              -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>
              -N-(CH_2-CH_2-NH_2)_2
              -OOC(CH_3)C = CH_2
              -OCH_2-CH(O)CH_2
              -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
              -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-
              (CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>
              -S_x-(CH_2)_3Si(OR)_3
i) Halogeno-organosilanes of the type (R)X2Si(CH2)m-R'
    X = Cl, Br
    R = alkyl, such as methyl, - ethyl-, propyl-
    m = 0, 1 - 20
    R' = methyl-, aryl (e.g. -C_6H_5, substituted
          phenyl radicals)
          -C_4F_9, -OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2
           -NH_2, -N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
          -N-(CH_2-CH_2-NH_2)_2
           -OOC(CH_3)C = CH_2
          -OCH_2-CH(O)CH_2
          -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>
          -NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-(CH_2)_3Si(OR)_3,
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wherein R can be methyl-, ethyl-, propyl-, butyl- $-S_x-(CH_2)_3Si(OR)_3$, wherein R can be methyl-, ethyl-, propyl-, butyl--SH

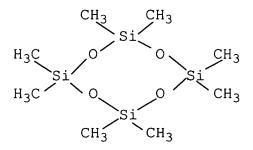
j) Halogeno-organosilanes of the type $(R)_2X$ Si $(CH_2)_m$ -R'

k) Silazanes of the type $R'R_2Si-N-SiR_2R'$

R = alkyl, vinyl, aryl
R' = alkyl, vinyl, aryl

1) Cyclic polysiloxanes of the type D 3, D 4, D 5, wherein D 3, D 4 and D 5 are understood as cyclic polysiloxanes with 3, 4 or 5 units of the type -O-Si(CH_3)₂-.E.g. octamethylcyclotetrasiloxane = D 4

Н



m) Polysiloxanes or silicone oils of the type

$$m = 0, 1, 2, 3, ... \infty$$

 $n = 0, 1, 2, 3, ... \infty$

 $Si(CH_3)_2OH$, $Si(CH_3)_2(OCH_3)$,

$$Si(CH_3)_2(C_nH_{2n+1})$$
 n=1-20

- = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- R' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals, $(CH_2)_n - NH_2$, H
- R'' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl- and substituted phenyl radicals, (CH₂)_n-NH₂, H
- R''' = alkyl, such as C_nH_{2n+1} , wherein n = 1 to 20, aryl, such as phenyl und substituted phenyl radicals, (CH₂)_n-NH₂, H
- 7. A cosmetic preparation comprising a dermatologically acceptable carrier and the surface-modified zinc oxide of Claim 1.
- A cosmetic preparation comprising a dermatologically acceptable carrier and the surface-modified zinc oxide of Claim 2.

- 9. A sunscreen preparation comprising a dermatologically acceptable carrier and the surface modified zinc oxide of Claim 1.
- 10. A sunscreen preparation comprising a dermatologically acceptable carrier and the surface modified zinc oxide of Claim 2.
- 11. The sunscreen preparation according to Claim 9, wherein the dermatologically acceptable carrier is a member selected from the group consisting of octocrylene, ethylhexyl methoxycinnamate, phenylbenzimidazole sulfoinc acid, and bisethylhexyloxy methoxyphenyl triazine.